

## EAST Search History

| Ref # | Hits   | Search Query  | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|-----------------|------------------|---------|------------------|
| L1    | 23     | ("4605826" "4626894" "4750156" "4884230" "4947362" "5189415" "5274606" "5394141" "5436564" "5448531" "5473321" "5490121" "5555530" "5576703" "5780784" "5815496" "5841810" "5969638" "5978417" "6094623" "6208265" "6434247" "6657597").PN. | US-PGPUB; USPAT | OR               | ON      | 2007/01/22 19:33 |
| L2    | 5      | 1 and (electromagnetic\$4 same noise)   | US-PGPUB; USPAT | OR               | ON      | 2007/01/22 19:43 |
| S1    | 0      | (("9923205") or ("9923184") or ("9923185")).PN.   | US-PGPUB; USPAT | OR               | OFF     | 2007/01/18 14:47 |
| S2    | 152017 | RODNEY nea2 PAUL.in.  | US-PGPUB; USPAT | OR               | ON      | 2004/11/18 18:09 |
| S3    | 45     | RODNEY near3 PAUL.in.   | US-PGPUB; USPAT | OR               | ON      | 2004/11/18 18:09 |
| S4    | 25     | S3 and electromagnetic  | US-PGPUB; USPAT | OR               | ON      | 2004/11/18 18:26 |
| S5    | 40     | SMITH near3 HARRISON.in.  | US-PGPUB; USPAT | OR               | ON      | 2004/11/18 18:27 |
| S6    | 21     | S5 and electromagnetic  | US-PGPUB; USPAT | OR               | ON      | 2004/11/18 18:29 |
| S7    | 49     | ((directional with sensor) same electromagnetic) and borehole   | US-PGPUB; USPAT | OR               | ON      | 2004/11/18 18:30 |
| S8    | 11     | S7 and (noise with sensor)  | US-PGPUB; USPAT | OR               | ON      | 2004/11/18 18:32 |
| S9    | 1      | ("6,657,597").PN.   | US-PGPUB; USPAT | OR               | OFF     | 2004/11/18 18:32 |
| S10   | 116    | (340/854.6).CCLS.   | US-PGPUB; USPAT | OR               | OFF     | 2004/12/03 13:22 |
| S11   | 17     | S10 and (direction\$4 with sensor)  | US-PGPUB; USPAT | OR               | ON      | 2004/12/03 13:38 |
| S12   | 10     | (borehole or wellbore) and (electromagnetic.with field) and (remove with noise) and (direction\$4 with sens\$4)   | US-PGPUB; USPAT | OR               | ON      | 2004/12/03 13:40 |
| S13   | 1      | ("6,781,520").PN.   | US-PGPUB; USPAT | OR               | OFF     | 2007/01/18 15:45 |
| S14   | 1669   | ((340/853.1,856.4,854.6) or (702/85) or (367/83,43,38)).CCLS.   | US-PGPUB; USPAT | OR               | OFF     | 2007/01/18 15:46 |
| S15   | 363    | S14 and electromagnetic\$4  | US-PGPUB; USPAT | OR               | ON      | 2007/01/18 15:46 |
| S16   | 95     | S15 and (noise with (reduc\$4 or remov\$4 or cancel\$4))  | US-PGPUB; USPAT | OR               | ON      | 2007/01/18 15:49 |

## EAST Search History

|     |    |  |                 |    |     |                  |
|-----|----|--|-----------------|----|-----|------------------|
| S17 | 65 | S16 and (borehole or wellbore or downhole) | US-PGPUB; USPAT | OR | ON  | 2007/01/19 12:55 |
| S18 | 1  | ("20040069514").PN.                        | US-PGPUB; USPAT | OR | OFF | 2007/01/18 15:54 |
| S19 | 1  | ("5535976").PN.                            | US-PGPUB; USPAT | OR | OFF | 2007/01/19 13:03 |
| S20 | 1  | ("6657597").PN.                            | US-PGPUB; USPAT | OR | OFF | 2007/01/19 14:16 |
| S21 | 1  | ("4980682").PN.                            | US-PGPUB; USPAT | OR | OFF | 2007/01/19 14:16 |
| S22 | 0  | S21 and antenna                            | US-PGPUB; USPAT | OR | ON  | 2007/01/19 14:37 |
| S23 | 0  | S21 and (electric\$4 with field)           | US-PGPUB; USPAT | OR | ON  | 2007/01/19 14:37 |
| S24 | 0  | S21 and cancel\$4                          | US-PGPUB; USPAT | OR | ON  | 2007/01/19 14:48 |